

(FILE 'HOME' ENTERED AT 16:49:12 ON 19 JUN 2003)

FILE 'REGISTRY' ENTERED AT 16:49:33 ON 19 JUN 2003

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 16:50:16 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 19 TO ITERATE

100.0% PROCESSED 19 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 119 TO 641

PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 16:50:21 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 444 TO ITERATE

100.0% PROCESSED 444 ITERATIONS

69 ANSWERS

SEARCH TIME: 00.00.01

L3 69 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

148.15

148.36

FILE 'CAPLUS' ENTERED AT 16:50:26 ON 19 JUN 2003

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FILE COVERS 1907 - 19 Jun 2003 VOL 138 ISS 25

FILE LAST UPDATED: 18 Jun 2003 (20030618/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 27 L3

=> d 1-27 bib abs

L4 ANSWER 1 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 2003:239943 CAPLUS

DN 138:273330

TI Bleaching compositions with good hydrogen peroxide stability

IN Kaneda, Hideyuki; Miyasaki, Yoshitaka

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 27 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003089800	A2	20030328	JP 2002-190449	20020628
PRAI	JP 2001-208399	A	20010709		

OS MARPAT 138:273330

AB Title compns. comprise (A) hydrogen peroxide or peroxide compds. giving hydrogen peroxide when dissolved in water, (B) phenolic radical trapping agents, (C) phosphonic acid type metal captures, and (D) bleaching activation catalysts comprising transition metals and ligands
B(CR1H)nX[(CR2H)mA]p, wherein p = 0-2 integer; X = R when p = 0, X = R' when p = 1, or X = N, P, CR when p = 2; R, R1, R2 = H, (substituted) alkyl, cycloalkyl, or aryl; R' = (substituted) alkylene or cycloalkylene; n, m = 0-2 no.; A, B = NR3R4 or N:R5; R3, R4 = H, OH, alkyl, cycloalkyl, aryl, or benzyl, and alkyl, cycloalkyl, aryl, and benzyl group may be substituted with OH, halogen, phosphonic acid, carboxylic acid, C1-3 alkyl or aryl; and R5 = alkylidene, cycloalkylidene, or benzylidene, and alkylidene, cycloalkylidene, and benzylidene may be substituted with OH, halogen, phosphonic acid, carboxylic acid, C1-3 alkyl or alkoxyl substituted dialkylamino, or C1-3 alkyl or aryl. Thus, a compn. comprised 35% hydrogen peroxide 5.0, MQ-F 4-methoxyphenol 0.2, Briquest ADPA 1-hydroxyethane-1,1-diphosphonic acid 1.0, [tris(salicylideneiminoethyl)amine] manganese (prepn. given) 20.0, polyethylene glycol alkyl ether 4.5, linear alkyl benzene sodium sulfonate 0.5, C14 .alpha.-olefin potassium phosphonic acid 1.0, and perfume compn. 0.1%, and sodium hydroxide and water.

L4 ANSWER 2 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 2002:575181 CAPLUS

DN 137:126840

TI Process for the preparation of water-soluble granules or particles of saldimine-type manganese complexes useful for washing agents

IN Hazenkamp, Menno; Grey, Bryan David; Mistry, Kishor Kumar; Bachmann, Frank; Dannacher, Josef; Symes, Kenneth Charles; Kvita, Petr; Maier, Susanne

PA Ciba Specialty Chemicals Holding Inc., Switz.

SO PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002059245	A1	20020801	WO 2002-EP512	20020118
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,			

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI EP 2001-810078 A 20010126

EP 2001-810795 A 20010817

OS MARPAT 137:126840

AB Water sol. granules or particles of saldimine-type manganese complexes that are suitable as catalysts in reactions with peroxy compds. are described. The granules are used esp. in washing agent components. They are distinguished by retarded dissoln. of and improved action of the manganese complexes.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 2002:395604 CAPLUS

DN 138:99869

TI Synthesis and characterization of a series of chelated complexes
N(CH₂CH₂-O-C₆H₄-CH:NCH₂ CH₂)₃N

AU Zhang, Jiang-run; Yang, Xu-jie; Lu, Lu-de; Wang, Xin; Xu, Xing-you

CS Materials Chemistry Laboratory, School of Chemical Engineering, Nanjing University of Science and Technology, Nanjing, 210094, Peop. Rep. China

SO Huaihai Gongxueyuan Xuebao (2002), 11(1), 45-47

CODEN: HGXKFX; ISSN: 1008-3499

PB Huaihai Gongxueyuan Xuebao Bianjibu

DT Journal

LA Chinese

AB To study the structure and characterization of transition metal chelate complexes, the authors synthesized a new complex by the condensation of tren and nitrilotris(ethyloxybenzaldehyde), and prepd. corresponding transition metal chelate complexes of tren and nitrilotris(ethyloxybenzaldehyde) complex by replacement reaction. The complex and the chelate complexes were characterized by elemental anal., FTIR, ¹H-NMR, and UV.

L4 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 2001:867303 CAPLUS

DN 136:128207

TI A nitrate-selective electrode based on tris(2,2',2''-salicylideneimino)triethylamine

AU Aslan, Nazife; Kenar, Adnan; Atakol, Orhan; Kilic, Esma

CS Department of Chemistry, Faculty of Science, Ankara University, Ankara, Turk.

SO Analytical Sciences (2001), 17(11), 1269-1272

CODEN: ANSCEN; ISSN: 0910-6340

PB Japan Society for Analytical Chemistry

DT Journal

LA English

AB A new nitrate-selective liq.-membrane electrode based on the tris(2,2',2''-salicylideneimino)triethylamine-Fe(III) complex was developed. This electrode exhibits a linear Nernstian response over the range 10⁻¹ - 10⁻⁴ M of nitrate, with a slope of 54.3 ± 0.9 mV per p[NO₃]. The effects of the pH and the liq.-membrane compn. were also studied. The lifetime of the electrode is at least one month. The selectivity coeffs. for ten monovalent ions were calcd. The prepn. procedure of the electrode is very easy and inexpensive. Also, the proposed electrode was applied for the detn. of nitrate in fertilizers.

RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 2001:101267 CAPLUS

DN 134:164852

TI Water-soluble granules of salen-type manganese complexes

IN Hazenkamp, Menno; Bachmann, Frank; Makowka, Cornelia; Kvita, Petr;
Kurattli, Rolf; Schmidlin, Anita

PA Ciba Specialty Chemicals Holding Inc., Switz.

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001009276	A1	20010208	WO 2000-EP6934	20000720
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	EP 1200545	A1	20020502	EP 2000-954542	20000720
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
	JP 2003506525	T2	20030218	JP 2001-514070	20000720
PRAI	EP 1999-810684	A	19990728		
	WO 2000-EP6934	W	20000720		

OS MARPAT 134:164852

AB The granules comprising H₂O-sol. salen-type Mn complexes and .gtoreq.10% of an anionic or nonionic dispersant or a H₂O-sol. polymer, e.g., poly(vinyl alc.) Na-CMC, polyvinylpyrrolidone, etc., as dissoln. restrainer provide better inhibition of the redeposition of migrating dyes in washing liquors than is provided by pure Mn complexes. The storage stability of peroxide-contg. washing agent formulations comprising such granules is also improved. Washing agent formulations contg. anionic and/or nonionic surfactants, builders, peroxides and granules described above are also claimed.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 2001:64115 CAPLUS

DN 134:133329

TI Metal complexes of tripodal ligands as catalysts for peroxygen compounds in cleaning and disinfecting

IN Bachmann, Frank; Dannacher, Josef; Hazenkamp, Menno; Schlingloff, Gunther; Richter, Grit; Dbaly, Helena; Traber, Rainer Hans

PA Ciba Specialty Chemicals Holding Inc., Switz.

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

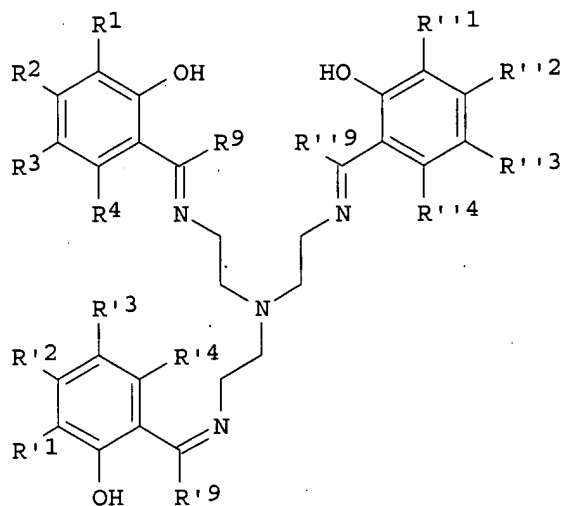
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001005925	A1	20010125	WO 2000-EP6420	20000706
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,			

YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 BR 2000012390 A 20020319 BR 2000-12390 20000706
 EP 1194514 A1 20020410 EP 2000-947944 20000706
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 JP 2003505349 T2 20030212 JP 2001-511141 20000706
 PRAI EP 1999-810631 A 19990714
 WO 2000-EP6420 W 20000706
 OS MARPAT 134:133329
 GI



I

AB Tripodal ligands I (R1-4, R'1-4, R''1-4 = H, cyano, halo, S-contg. acidic or amide group, ether group, or ester group, R9, R'9, R''9 = H, C1-8 alkyl, or aryl) and their metal complexes are useful as catalysts to enhance the action of peroxygen compds. in washing, cleaning and disinfecting processes. A typical I was manufd. by stirring an aq. emulsion contg. 3.42 mmol tris(2-aminoethyl)amine and 10.3 mmol salicylaldehyde 20 h.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2003 ACS
 AN 1999:251038 CAPLUS
 DN 130:331835
 TI Crystal structure and characterization of an unexpected dinuclear Mn(II)Mn(III) azacryptate
 AU Zeng, Qingdao; Gou, Shaohua; He, Ling; Gong, Yan; You, Xiaozeng
 CS Coordination Chemistry Institute and State Key Laboratory of Coordination Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China
 SO Inorganica Chimica Acta (1999), 287(1), 14-20
 CODEN: ICHAA3; ISSN: 0020-1693
 PB Elsevier Science S.A.
 DT Journal
 LA English
 AB A mixed-valence dinuclear manganese complex, [MnIIMnIIIL](ClO4)2 where L is an azacryptate derived from the cyclocondensation of 2,6-diformyl-4-methylphenol and tris(2-aminoethyl)amine (tren), was

unexpectedly obtained in a reaction and detd. by x-ray diffraction. The crystal crystallizes in space group P.hivin.1, triclinic system with unit cell data: Z = 2, a 12.417(2), b 12.735(2), c 16.793(3) .ANG., .alpha. 92.67(2), .beta. 106.64(2), .gamma. 103.57(2).degree.. X-ray anal. reveals that the distorted octahedral metal Mn(II) coordination sphere is [MnN3O3], and the Mn(III) center shows Jahn-Teller elongation along one of the axes. Meanwhile, a method by the condensation of sodium 2,6-diformyl-4-methylphenolate (sdmp) with tris(2-aminoethyl)amine (tren) to prep. a trisodium azacryptate (Na3L) is reported. Transmetalation of Na3L with divalent transition metals gives known complexes, [M2IIL]ClO4, in which [MnII2L]ClO4 were crystallog. detd. and characterized by ESR spectra for comparison.

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1998:651334 CAPLUS

DN 130:9998

TI A very high-spin molecule. Preparation, characterization, and magnetic properties of an Fe(III)-Gd(III) complex with an S = 12/2 ground state

AU Costes, Jean-Pierre; Dupuis, Arnaud; Laurent, Jean-Pierre

CS Lab. Chimie Coordination, Univ. Paul Sabatier, Toulouse, F-31077, Fr.

SO European Journal of Inorganic Chemistry (1998), (10), 1543-1546

CODEN: EJICFO; ISSN: 1434-1948

PB Wiley-VCH Verlag GmbH

DT Journal

LA English

AB The tripodal ligand tris[4-(2-hydroxy-3-methoxyphenyl)-3-aza-3-butenyl]amine (H3vantren) offers 2 coordination sites, an inner N4O3 one and an outer O6 one. Therefore, it can successively encapsulate 2 different metal ions, a 3d(III) ion in the N4O3 site, and a 4f(III) ion in the O6 site. This general route to homo- and heterodinuclear complexes was exploited for the prepn. of (vantren)FeGd(NO3)3.2H2O (I), featuring a high-spin Fe center. This compd. was characterized by chem. anal. and mass spectrometry (FAB+). Its magnetic properties were investigated and show that the (Fe,Gd) pair in I exhibits a ferromagnetic interaction of low intensity [J = 0.50(5) cm-1]. The resulting S = 12/2 ground state is, most probably, the highest spin ground state that can be expected for a dinuclear complex.

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1998:302292 CAPLUS

DN 129:61952

TI Response to steric constraint in azacryptate and related complexes of iron-(II) and -(III)

AU Deeney, F. Anthony; Harding, Charles J.; Morgan, Grace G.; McKee, Vickie; Nelson, Jane; Teat, Simon J.; Clegg, William

CS Physics Department, University College, Cork, Ire.

SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1998), (11), 1837-1844

CODEN: JCDTBI; ISSN: 0300-9246

PB Royal Society of Chemistry

DT Journal

LA English

AB Fe(II) cryptates, where the FeII is in the high-spin S = 2 electronic configuration, even with six sp2 N-donors, and Fe(III) cryptates adopting the intermediate spin S = 3/2 state were prepd. The structure of a high-spin Fe(II) cryptate utilizing six sp2 N-donors shows long metal-ligand distances which effectively destabilize the low-spin 1Ag configuration. Comparison is made between Fe(III) cryptates, a less sterically constrained podand complex of the same donor set, and analogous N4O-2 polychelates, which are resp. intermediate-, high- and low-spin or S

= 5/2 .tautm. S = 1/2 spin crossover systems. The Mossbauer spectra of the Fe(III) cryptates and analogous podate are remarkably similar, despite their different spin states, suggesting covalency in the podate binding. The crystal structure of the podate supports this conclusion, as the Fe-ligand donor distances are short for high-spin FeIII.

RE.CNT 61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1995:888782 CAPLUS

DN 124:20307

TI Electrospray ionization mass spectral investigations on multi-nuclear complexes of an azacryptand

AU Zhou, Keyu; Gou, Shaohua; Wang, Zhilin; Yuan, Zuanru

CS Coordination Chemistry Inst., Nanjing Univ., Nanjing, 210093, Peop. Rep. China

SO Polyhedron (1995), 14(23/24), 3501-4

CODEN: PLYHDE; ISSN: 0277-5387

PB Elsevier

DT Journal

LA English

AB The electrospray ionization (ES) mass spectrum of a trisodium azacryptate derived from a template reaction of Na 2,6-diformyl-4-methylphenolate (sdmp) with 2,2',2''-triaminoethylamine (tren) was studied and compared with those by fast atom bombardment (FAB), atm. pressure chem. ionization (APCI) and electronic ionization (EI) methods. Dinuclear transition metal complexes of this hexamine macrobicyclic ligand obtained by transmetalation were also studied by ES mass spectra. An [M2L]+ species was obsd. for divalent metal complexes, and an [MLH]+ species for a trivalent metal complex. The possible mechanism of the fragmentation process is discussed.

L4 ANSWER 11 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1995:663346 CAPLUS

DN 123:70977

TI Crystal structure of tris-(2,2',2'')-triaminoethylaminosalicylideneiron(II) complex

AU Elerman, Yalcin; Kabak, Mehmet; Svoboda, Ingrid; Fuess, Hartmut; Atakol, Orhan

CS Fac. Sci., Univ. Ankara, Besevler Ankara, 06100, Turk.

SO Journal of Chemical Crystallography (1995), 25(5), 227-30

CODEN: JCCYEV; ISSN: 1074-1542

PB Plenum

DT Journal

LA English

AB Tris-(2,2',2'')-triaminoethylaminosalicylidene Fe(III) crystallizes in the monoclinic crystal system with a 7.766(2), b 25.423(5), c 13.318(5) .ANG., .beta. 118.04(3).degree., space group P21/c, Z = 4, and dc = 1.464, R = 0.0451 and Rw = 0.102 (on F2). The center of the axially distorted octahedron is occupied by the Fe atom which is coordinated by six donor N and O atoms in fac positions. The planes of coordinated atoms (N and O) with the Fe(III) atom are almost planar and the max. elevated atom from these planes is O(1) (-0.1065 .ANG.).

L4 ANSWER 12 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1995:585447 CAPLUS

DN 123:242528

TI Geometric control of manganese redox state

AU Drew, Michael G. B.; Harding, Charles J.; McKee, Vickie; Morgan, Grace G.; Nelson, Jane

CS Sch. Chem., Queens Univ., Belfast, BT9 5AG, UK

SO Journal of the Chemical Society, Chemical Communications (1995), (10), 1035-8

CODEN: JCCCAT; ISSN: 0022-4936

PB Royal Society of Chemistry
 DT Journal
 LA English
 AB Comparison of the structures of four monomanganese (and one monoiron) complexes of ligands with the identical donor [N3(O-)3] set reveals that geometry detns. the redox state of the cation. Crystallog. data are given.

L4 ANSWER 13 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1994:523870 CAPLUS

DN 121:123870

TI Preparation, properties and coordination behavior of planar or tridimensional compartmental Schiff bases

AU Aguiari, A.; Bullita, E.; Casellato, U.; Guerriero, P.; Tamburini, S.; Vigato, P. A.; Russo, U.

CS Istituto di Chimica e Tecnologie Inorganiche e dei Materiali Avanzati, CNR, Area della Ricerca, Corso Stati Uniti 4, Padua, 35100, Italy

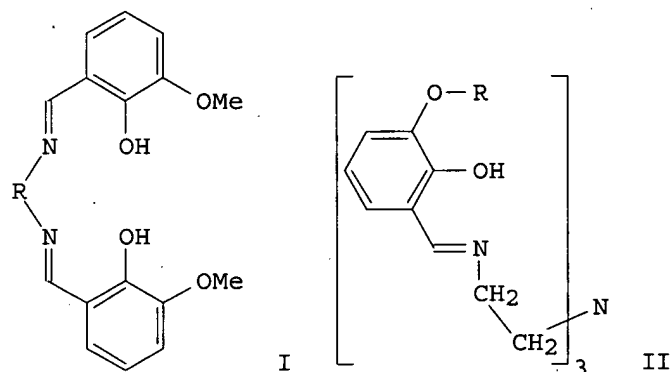
SO Inorganica Chimica Acta (1994), 219(1-2), 135-46

CODEN: ICHAA3; ISSN: 0020-1693

DT Journal

LA English

GI



AB Planar I [R = (CH₂)₂, {(CH₂)₂N[(CH₂)₁₁Me](CH₂)₂} (H₂LA and H₂LB, resp.)) were prepd. by condensation of 3-methoxysalicylaldehyde with 1,2-diaminoethane or 4-N-dodecyldiethylenetriamine. Mononuclear and homodinuclear complexes were synthesized by reaction of the ligands with metal salts or by template procedure; heterodinuclear complexes were obtained in step by step reactions. Tridimensional II (R = Me, H (H₂LC and H₆LD, resp.)) were obtained by condensation of tris(2-ethylamine)amine with 3-methoxy- or 3-hydroxysalicylaldehyde. With M(AcO)₂ (M = Mn, Fe) they form M(LC) or M(H₃LD). In these complexes the oxidn. of the central metal was confirmed by Moessbauer and x-ray structural detns. MnLC crystallizes in the monoclinic system, space group P2₁/c with a 10.910(4), b 12.382(4), c 21.196(6) .ANG. and .beta. 90.91(6).degree., with Z = 4, R = 0.057. The Mn(III) ion coordinates in the inner chamber, giving rise to an octahedral complex with the N3O3 donor set formed by the phenolate O and the imine N donor atoms. The apical amine N is not involved in the coordination. Bond lengths in the octahedral coordination polyhedron are comprised between 1.897(5) and 2.081(6) .ANG. for the 3 oxygens and 2.075(7) and 2.317(7) .ANG. for the 3 N donors to the metal ion. The possibility of using this Mn(III) complex (MnLC) as a ligand towards Ln(X)₃ or KBr also was studied.

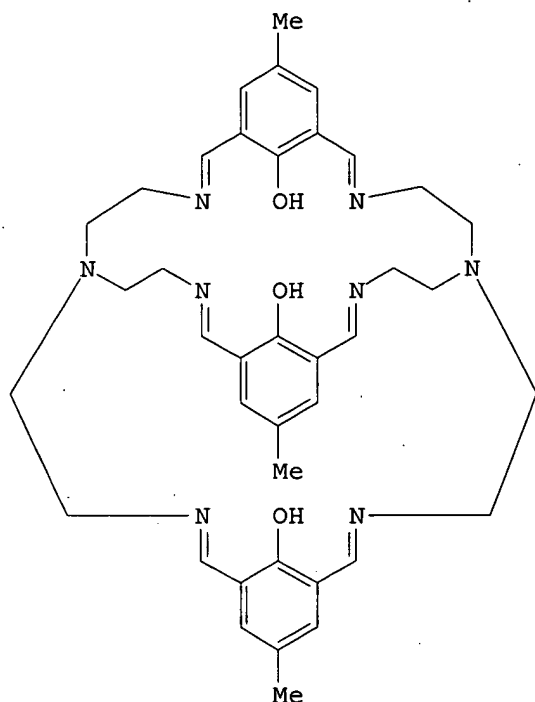
L4 ANSWER 14 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1994:314341 CAPLUS

DN 120:314341

TI Synthesis, structure, EPR and electrochemical studies of a .mu.₂-phenoxo

AU bridged manganese(II) dimer afforded by a binucleating macrocyclic ligand
 CS Chakraborty, Partha; Chandra, Swapan Kumar
 SO Dep. Inorg. Chem., Indian Assoc. Cultivation Sci., Calcutta, 700032, India
 Polyhedron (1994), 13(4), 683-7
 CODEN: PLYHDE; ISSN: 0277-5387
 DT Journal
 LA English
 GI



I

AB The reaction of 2 mol of tris(2-aminoethyl)amine and 3 mol of
 4-methyl-2,6-diformylphenol in MeCN soln. affords a light yellow cryst.
 solid I (H₃L), which on reacting with Mn(OAc)₂·4H₂O in alk. MeOH produced
 binuclear [Mn₂L]ClO₄. The x-ray structure of [Mn₂L]ClO₄·H₂O is reported.
 The lattice consists of 2 crystallog. independent but metrically very
 similar binuclear units. Mn(II) ions are tris μ -2-phenolato bridged and
 the distorted octahedral metal coordination spheres are MnN₃O₃. The
 frozen (77 K) EPR spectrum of the complex shows group of 11 hyperfine
 lines with coupling consts. of 43.7 G showing that the unpaired electrons
 interact with both ⁵⁵Mn centers. The complex displays 2 successive oxidn.
 couples with E_{1/2} values 0.54 and 1.07 V vs. satd. calomel electrode.

L4 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2003 ACS
 AN 1993:439479 CAPLUS
 DN 119:39479
 TI Mono- and tetra-nuclear manganese(III) complexes of tripodal
 tris[2-(salicylideneamino)ethyl]amines
 AU Chandra, Swapan Kumar; Chakraborty, Partha; Chakravorty, Animesh
 CS Dep. Inorg. Chem., Indian Assoc. Cultiv. Sci., Calcutta, 700032, India
 SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry
 (1972-1999) (1993), (6), 863-9
 CODEN: JCDTBI; ISSN: 0300-9246
 DT Journal
 LA English

AB Tripodal N[CH₂CH₂N:CHC₆H₃X(OH)-2]₃ [H₃L; X = H (H₃L₁), Cl-5 (H₃L₂)] afford [MnL]. Structural work showed that the symmetry of the facial MnN₃O₃ coordination sphere in the 2 solvates [MnL₂].3H₂O and [MnL₂].MeOH (I) varies considerably as the former has C₃ and the latter C₁ symmetry. The implications of these differences are discussed. Reaction of [MnL] with Mn(OAc)₃.2H₂O in alk. media affords antiferromagnetic [Mn^{III}4O₂L₂]²⁺ in high yields. X-ray studies on [Mn₄O₄L₁₂][PF₆]₂.4MeCN (II) revealed a centrosym. Mn₄(μ₃-O)₂₈₊ core, with the shortest Mn...Mn contact being 2.906(3) Å. The metal coordination spheres are of 2 types: facial-MnN₃O₃ and MnNO₅. The cyclic voltammograms of [Mn₄O₂L₂]²⁺ display 2 successive waves due to the Mn^{III}-Mn^{II} couples of the MnN₃O₃ spheres. For [MnL] only 1 such couple is obsd. Oxidative responses due to Mn^{IV}-Mn^{III} couples are obsd. Some preliminary work on an Fe(III) analog of [Mn₄O₂L₂]²⁺ is described. Crystal data: I; triclinic, space group P₁h₁1₁, a 9.457(3), b 11.731(3), c 13.153(4) Å, α 80.98(2), β 78.76(3), γ 89.08(2)°, Z = 2, R = 0.0461, R' = 0.0522; II; monoclinic, space group P2₁/n, a 14.019(7), b 16.165(8), c 15.995(7) Å, β 102.27(4)°, Z = 2, R = 0.0604, R' = 0.0612.

L4 ANSWER 16 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1992:165071 CAPLUS

DN 116:165071

TI Trends in the spectral and redox potential data of mononuclear iron(III) (S = 5/2) phenolate complexes

AU Ramesh, Krishnamoorthi; Mukherjee, Rabindranath

CS Dep. Chem., Indian Inst. Technol., Kanpur, 208 016, India

SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1992), (1), 83-9
CODEN: JCDTBI; ISSN: 0300-9246

DT Journal

LA English

AB A series of high-spin octahedral Fe(III) complexes of Schiff bases derived from salicylaldehyde arom. amines was synthesized. The ligands were selected to encompass various coordination spheres FeN₂O₄, FeN₂O₂O'₂, FeN₃O₃ and FeN₄O₂ (where O represents a phenolic oxygen, N an aliph. or arom. nitrogen, and O' a carboxylate oxygen) to provide generalizations regarding the overall coordination environment of the Fe center in a closely related group of complexes. They reveal the effect of stereochem. and/or donor atom variations on the UV/visible and EPR spectra and Fe^{III}-Fe^{II} redox potentials. Information on the Fe(III) site symmetry was obtained by EPR measurements. The optical spectra are largely detd. by transitions originating in the Fe-salicylaldehyde chromophore. The ligand-to-metal charge-transfer bands systematically shift to higher energy as the no. of phenolate-contg. donor sites increases. This blue shift is reflected in more neg. Fe^{III}-Fe^{II} redox potentials. The order of increasing cathodic potential shift with respect to the coordination sphere is N₂O₄ > N₂O₂O'₂ > N₃O₃ > N₄O₂. This is a reflection of the decreased Lewis acidity of the Fe(III) center due to the increase in basicity of the donor atom. A linear spectroelectrochem. correlation was obtained between the phenolate-to-Fe(III) charge-transfer band energy and the Fe^{III}-Fe^{II} redox potential. Based on this correlation, trends in the redox potentials of Fe tyrosinate proteins are discussed.

L4 ANSWER 17 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1992:50303 CAPLUS

DN 116:50303

TI Manganese(III) complexes with Mn^{II}IN₃O₃ (S = 2) coordination by sexidentate Schiff base ligands: synthesis, spectra and electrochemistry

AU Ramesh, Krishnamoorthi; Bhuniya, Deb Nath; Mukherjee, Rabindranath

CS Dep. Chem., Indian Inst. Technol., Kanpur, 208 016, India

SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1991), (11), 2917-20
CODEN: JCDTBI; ISSN: 0300-9246

DT Journal

LA English
AB MnL3 (HL = tris[2-(2'-hydroxybenzylidene)ethyl]amine and its 3-, 4-, 5-methyl-, 3,4-dimethyl- and 3,5-dichloro derivs.) ($\mu_{\text{eff}} = 4.79\text{--}5.30$ at 298 K) have been prepd. and their soln. properties thoroughly investigated. The brown to green cryst. complexes display ligand-to-metal charge transfer transitions at 330-400 nm in addn. to a crystal field transition at 560-600 nm. The soln. stereochem. has been detd. by paramagnetically shifted ^1H NMR spectroscopy. Unlike the C_3 symmetry in the solid state structure, in soln. the $\text{MnIIIN}_3\text{O}_3$ coordination sphere is severely distorted (C_1 symmetry). Cyclic voltammetric studies in DMF reveal an irreversible MnIIIMnII couple [Epc -0.62 to -0.05 V vs. SCE] and a quasireversible MnIV-MnIII couple (E_f at +0.42 to +0.86 vs. SCE).

L4 ANSWER 18 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1991:669194 CAPLUS

DN 115:269194

TI Synthesis, stereochemical characterization, and absolute configuration of enantiomerically pure complexes of sexidentate ligands

AU Kremminger, Peter; Weissensteiner, Walter

CS Inst. Org. Chem., Univ. Wien, Vienna, A-1090, Austria

SO Monatshefte fuer Chemie (1991), 122(6-7), 571-6

CODEN: MOCMB7; ISSN: 0026-9247

DT Journal

LA English

AB The optically active sexidentate Schiff bases [H3L] and [H3L1] were prepd. from tris[(S)-2-aminopropyl]amine and 5-chlor- and 5-iso-propylsalicylaldehyde, resp. Reaction of RhCl_3 with [H3L1] gave enantiomerically pure [RhL1] with an abs. configuration of Λ . for the octahedral arrangement. The chiroptical properties are given. H3L and GaL3 (H3L = $\text{N}[\text{CH}_2\text{CH}_2\text{N}:\text{CR}]_3$ (R = $\text{C}_6\text{H}_3\text{-2-OH-5-iso-Pr}$)) were prepd.

L4 ANSWER 19 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1989:507961 CAPLUS

DN 111:107961

TI The synthesis of iron(III) and cobalt(III) complexes of facultative hexadentate ligands. The x-ray crystal structure of $[\text{Fe}\{\text{NC}_4\text{H}_3\text{-2-CH:NCH}_2\text{CH}_2\text{NHCH}_2\}_2]\text{PF}_6$

AU Rothin, Anne S.; Banbery, Hilary J.; Berry, Frank J.; Hamor, Thomas A.; Jones, Christopher J.; McCleverty, Jon A.

CS Dep. Chem., Univ. Birmingham, Birmingham, B15 2TT, UK

SO Polyhedron (1989), 8(4), 491-504

CODEN: PLYHDE; ISSN: 0277-5387

DT Journal

LA English

AB Ligands were prepd. from the condensation of $(\text{H}_2\text{NCH}_2\text{CH}_2\text{ZCH}_2)_2$ (Z = S, NH) with 1-hydroxy-3-methoxybenzophenone, 2-hydroxypropiophenone, 2-hydroxybenzophenone or pyrrole-2-aldehyde, and from 3-methoxysalicylaldehyde with tris(2-aminoethyl)amine. Ability to encapsulate Co(III) and Fe(III) in 1:1 stoichiometry is reduced by the incorporation of S donor atoms, or by replacement of the terminal 6-membered chelate rings of the salicylaldehyde derivs. by a five-membered ring in the pyrrole-aldehyde derivs. Moessbauer spectral data are reported for the Fe complexes, and the mol. structure of $[\text{Fe}\{\text{RCH:NCH}_2\text{CH}_2\text{NHCH}_2\}_2]\text{PF}_6$ (R = 2-pyrrolyl) was detd. by single crystal x-ray diffraction techniques. Crystals are monoclinic, space group $P2_1/c$, a 10.644(7), b 13.829(2), c 13.665(4), Z = 4; R = 0.0855 for refinement of 2714 structure amplitudes with $F > 5.\sigma(F)$.

L4 ANSWER 20 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1989:106965 CAPLUS

DN 110:106965

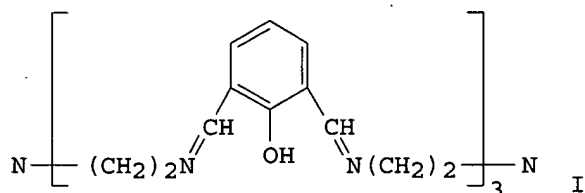
TI Water-soluble hexadentate Schiff-base ligands as sequestering agents for iron(III) and gallium(III)

AU Evans, Dennis F.; Jakubovic, David A.

CS Inorg. Chem. Lab., Imp. Coll., London, SW7 2AY, UK
 SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry
 (1972-1999) (1988), (12), 2927-33
 CODEN: JCDTBI; ISSN: 0300-9246
 DT Journal
 LA English
 AB Complexes of Fe and Ga with hexadentate Schiff-base ligands were characterized in aq. soln. They were prepd. by the condensation of R-substituted salicylaldehydes (R = SO₃⁻, NMe₃⁺) with polyamines in the presence of the metal ions. The complexes were characterized by NMR and UV spectra and cyclic voltammetry. These complexes have stabilities, at physiol. pH, similar to those of the hydroxamic acid siderophore complexes. The kinetics of the displacement of Fe from [FeL]- (H₄L = EDTA) by 2 of Schiff bases was studied.

L4 ANSWER 21 OF 27 CAPLUS COPYRIGHT 2003 ACS
 AN 1986:543929 CAPLUS
 DN 105:143929
 TI Transition-metal complexes of a binucleating clathrochelate ligand: a reinvestigation of the crystal structure
 AU Marsh, Richard E.; Schaefer, William P.
 CS A. A. Noyes Lab. Chem. Phys., California Inst. Technol., Pasadena, CA, 91125, USA
 SO Inorganic Chemistry (1986), 25(20), 3661-2
 CODEN: INOCAJ; ISSN: 0020-1669
 DT Journal
 LA English
 AB The crystal structure of (LFeCo)BF₄, where L is the ligand resulting from the condensation of 3 mols of 2-hydroxy-5-methylisophthalaldehyde and 2 mols of tris(aminoethyl)amine, was re-refined in the rhombohedral space group R_hivin.3c: a 11.833 and c 49.603 .ANG.; Z = 6. The 2 metal sites in the complex are structurally equiv.; the original refinements space group Cc did not reveal this equivalence. The final R = 0.072.

L4 ANSWER 22 OF 27 CAPLUS COPYRIGHT 2003 ACS
 AN 1985:604816 CAPLUS
 DN 103:204816
 TI Magnetic exchange interactions in binuclear transition-metal complexes of a binucleating clathrochelate ligand
 AU Timken, Mark D.; Marritt, William A.; Hendrickson, David N.; Gagne, Robert A.; Sinn, Ekk
 CS Sch. Chem. Sci., Univ. Illinois, Urbana, IL, 61801, USA
 SO Inorganic Chemistry (1985), 24(24), 4202-8
 CODEN: INOCAJ; ISSN: 0020-1669
 DT Journal
 LA English
 GI



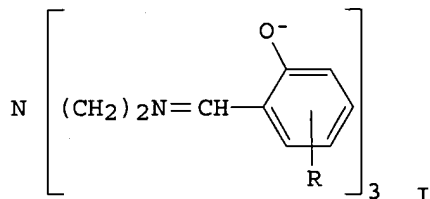
AB [MM₁L]BF₄ (H₃L = I, MM₁ = Cu₂, Fe₂, Co₂, Mn₂, CoFe, MnFe) were prepd. The binucleating nature of the ligand was established by the single-crystal x-ray structure of [CoFeL]BF₄, which crystallizes in the monoclinic space group Cc with a 20.501(10), b 11.833(3), c 17.889(9) .ANG., .beta. 112.44(4) .degree., Z = 4, R = 0.083, and R_w = 0.082. The cation contains

both metal ions in highly distorted, 6-coordinate ligand environments. The metal ions, sepd. by 3.07 .ANG., are bridged by the 3 deprotonated phenolic oxygens; 3 imine nitrogens complete the coordination environment. Variable-temp. (4.2-285 K) magnetic susceptibility measurements on the series of homobinuclear complexes show that the high-spin metal centers are weakly antiferromagnetically coupled. The susceptibility data for each complex were least-squares fit to the equations resultant from the spin Hamiltonian for an isotropic exchange interaction (.cxa.H = -2J.cxa.S1..cxa.S2) to give exchange parameters (J) of -33 cm⁻¹ (Cu₂), -0.93 cm⁻¹ (Co₂), -0.82 cm⁻¹ (Fe₂), and -2.8 cm⁻¹ (Mn₂). The ⁵⁷Fe Moessbauer data for [LFeMn]BF₄ and [LFe₂]BF₄ are consistent with high-spin ferrous ions, although the temp.-dependent spectra (300-5.4 K) of [LFe₂]BF₄ are unusual and suggest the presence of 2 inequiv. Fe coordination environments.

- L4 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2003 ACS
 AN 1980:156173 CAPLUS
 DN 92:156173
 TI Metal(III) compounds of potentially septadentate [N₄O₃] ligands. Part II. Crystal and molecular structures of [M(C₂7H₂₄Cl₃N₄O₃)]·3H₂O (M = chromium, manganese)
 AU Alcock, Nathaniel W.; Cook, Donald F.; McKenzie, E. Donald; Worthington, James M.
 CS Dep. Chem. Mol. Sci., Univ. Warwick, Coventry, CV4 7AL, UK
 SO Inorganica Chimica Acta (1980), 38(1), 107-12
 CODEN: ICHAA3; ISSN: 0020-1693
 DT Journal
 LA English
 AB The structure of the Cr(III) and Mn(III) compds. of the trianionic Schiff base ligand derived from tris(2-aminoethyl)amine and 3 mol. of 5-chlorosalicylaldehyde are isomorphous with the previously reported FeIII compd.: cubic space group Ia₃, with a 22.512(2) [Cr], and 22.490 .ANG. [Mn]. The structures were refined by block-diagonal least-squares to final Rs of 0.072 [Cr] and 0.050 [Mn]. Both are essentially octahedral [M(N₃O₃)] species, lying on 3-fold crystallog. axes, and the Mn compd. provides an unusual example of an undistorted octahedral d₄ system. Bond-lengths are: Cr-O 1.979(6), Cr-N 2.137(7), Mn-O 1.965(3), and Mn-N 2.137(4) .ANG.. Nonbonded metal to apical (tertiary) N distances are hardly different from that found in the isomorphous Fe compd.: M-N [Cr] 3.229(8), [Mn] 3.229(4), and [Fe] 3.260(4) .ANG..
- L4 ANSWER 24 OF 27 CAPLUS COPYRIGHT 2003 ACS
 AN 1979:482338 CAPLUS
 DN 91:82338
 TI Potentially heptadentate ligands derived from tris(2-aminoethyl)amine (tren)
 AU Malek, A.; Dey, G. C.; Nasreen, A.; Chowdhury, T. A.; Alyea, E. C.
 CS Dep. Chem., Univ. Dacca, Dacca, 2, Bangladesh
 SO Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry (1979), 9(2), 145-55
 CODEN: SRIMCN; ISSN: 0094-5714
 DT Journal
 LA English
 AB Tris(2-aminoethyl)amine condenses with salicylaldehyde and its 5-chloro, 3,5-dichloro, and 5-nitro derivs. in a 1:3 molar ratio to give Schiff bases which are potentially tribasic heptadentate ligands. The complexes ML, where M = Cr, Fe, and La and H₃L = tris[2-(3,5-dichlorosalicylideneamino)ethyl]amine, were prepd. and characterized by chem. anal. and mass, IR and ¹H NMR spectra.
- L4 ANSWER 25 OF 27 CAPLUS COPYRIGHT 2003 ACS
 AN 1976:601369 CAPLUS
 DN 85:201369
 TI Metal(III) compounds of potentially septadentate [N₄O₃] ligands derived

from tris(2-aminoethyl)amine and salicylaldehydes. I. Preparation of gallium, chromium, manganese, iron, and cobalt compounds, and crystal structure of the iron compound of tris[2-(5-chloro-2-hydroxybenzylidene)ethyl]amine

AU Cook, Donald F.; Cummins, Diane; McKenzie, E. Donald
 CS Chem. Dep., Univ. Sheffield, Sheffield, UK
 SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1976), (14), 1369-75
 CODEN: JCDBTBI; ISSN: 0300-9246
 DT Journal
 LA English
 GI



AB The potentially septadentate trianionic Schiff base ligands, I (R = H, 3-NO₂, 3-OMe, 5-Cl, 5-Br, 5-Me, 5-OMe, 5-NO₂), prepd. from N[(CH₂)₂NH₂]₃ and the appropriate substituted salicylaldehyde, reacted with M(III) species (M = Ga Cr, Mn, Fe, Co) to form 1:1 neutral compds. The electronic spectra and magnetic moments of the complexes were detd. and some polymorphs and isomorphous series were classified from x-ray powder diffraction patterns. The crystal and mol. structure of FeL (L = I, R = 5-Cl), detd. from x-ray diffractometer data, showed that the mol. was essentially a [Fe(O₃N₃)] octahedral species lying on a 3-fold crystallog. axis which passes through the Fe and the apical N. The apical N atom was anti-bonding with respect to Fe, being 3.26 .ANG. from Fe and almost coplanar with its 3 C substituents. The H₂O mols. in the crystal formed a flattened octahedral set about the crystallog. C₃ axis, H-bonded to themselves and to the ligand phenolic O atoms.

L4 ANSWER 26 OF 27 CAPLUS COPYRIGHT 2003 ACS
 AN 1975:66706 CAPLUS
 DN 82:66706
 TI Iron(III) compound of a potentially septadentate [N₄O₃] salicylaldiminato ligand. Crystal and molecular structure of [FeC₂₇H₂₄Cl₃N₄O₃].3H₂O
 AU Bailey, N. A.; Cook, D. F.; Cummins, D.; McKenzie, E. D.
 CS Chem. Dep., Univ. Sheffield, Sheffield, UK
 SO Inorganic and Nuclear Chemistry Letters (1975), 11(1), 51-3
 CODEN: INUCAF; ISSN: 0020-1650

DT Journal
 LA English
 AB The crystal and mol. structures of the title complex were detd. by x-ray structure anal. The compd. is cubic with space group Ia₃ and a 22.50 .ANG.. The structure was solved by Patterson and Fourier techniques and refined by block-diagonal least-squares to R = 0.084 for 1121 reflections. The 16 mol. in the unit cell each have constrained C₃ symmetry. The bond angles and distances are given. The phenolic O of centrosym. related adjacent mols. are linked by 3 pairs of H-bonded water mols. The apical metal to N distance is 3.25 .ANG.. The N is approaching coplanarity with 3 C atom substituents.

L4 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2003 ACS
 AN 1968:424108 CAPLUS
 DN 69:24108
 TI A potential septadentate ligand

AU Broomhead, J. A.; Robinson, D. J.
CS Aust. Nat. Univ., Canberra, Australia
SO Australian Journal of Chemistry (1968), 21(5), 1365-7
CODEN: AJCHAS; ISSN: 0004-9425
DT Journal
LA English
AB A hot aq. soln. contg. 3 g. 2,2',2"-triaminotriethylamine trihydrochloride and 5 g. Na(OAc).2H₂O was treated with 20 ml. EtOH soln. contg. 4.32 g. salicylaldehyde; the resulting yellow soln. was boiled for 3 min. and cooled on an ice bath to ppt. 0.7 g. 2,2',2"-tris(salicylideneimino)triethylamine (H₃L). A hot MeOH (50 ml.) soln. contg. 0.17 g. H₃L was treated with a 10 ml. MeOH soln. contg. 0.07 g. FeCl₃; to the red-violet soln. was added 22 ml. of an aq. soln. contg. 0.2 g. NaOAc. The soln. was evapd. to 20 ml. and cooled in ice to ppt. 0.12 g. FeL. The complex was characterized by ir and mass spectra and x-ray diffraction methods. Magnetic susceptibility measurements gave a value of 5.9 Bohr magnetons, thus indicating that Fe is in the high-spin state.

